BRUHAT BANGALORE MAHANAGAR PALIKE

Project Division, Yelahanka Zone

SCHEDULE - B

Issued to

Tender Number BBMP/2016-17/BD/WORK_INDENT22063

Tender Name Providing Structural roof covering (By space frames) over gallery to Hoysala Play Ground behind Yelahanka New Town Bus Stand in Ward No.04

Sl No	Item Name	Unit	Estimate Quantity	Negotiated Rates quoted by Sri H V ONKARAPPA	
				Rate in figures	Rate in words
1	Supply and fixing of single skin kalzip roofing systems of 65/400, 0.9mm thick Aluminium standing seam roof sheets. The sheets comprise of Profiled sheeting of Aluminium self-supported standing seam roof system manufactured from Aluminium alloy AA 3004, minimum material thickness of 0.9mm and PVDF finishing RAL 9006 on the exposed surface with ST clips and necessary accessories. Structure: (i) Supplying, cutting, bending and fabricating hot rolled plates, sag rods, brackings and connection bolts to form a column, truss with base plates and purlins. (ii) Erection of the above truss work structure at required height. (iii) Providing and applying one coat of red oxide primer and two coats of synthetic enamel paint. The scope of work includes a) Design, Engineering, Fabrication and erection of steel structure, roof sheeting and facade system. b) Supply and installation of flashing, capping, screws and all other necessary accessories	Sqmt	1611.13	17271.00	Rupees Seventeen Thousand Two Hundred Seventy One Only
2	Providing and laying cement concrete using 20mm and down size granite jelly of Ready Mixed Cement Concrete for Column Footings, M-20 (1:1.5:3) laid in 15 cms thick layers and well compated vibrating, curing, finishing with necessary cement mortar, pumping of concrete, with all lead and lifts, hire charges of machinaries, loading, unloading, levelling as per specification and direction of the Engineer-in-charge.compelte (exclusive of cost of steel and fabrication charges) with inclusive of all lead and lift and directions of the Engineer in charge of the work	Cum	11.20	7144.00	Rupees Seven Thousand One Hundred Forty Four Only
3	Providing and fixing 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing with inclusive of all lead and lift and directions of the Engineer in charge of the work	Sqm	1024.20	2354.00	Rupees Two Thousand Three Hundred Fifty Four Only
4	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint with inclusive of all lead and lift and directions of the Engineer in charge of the work	Sqm	270.90	787.00	Rupees Seven Hundred Eighty Seven Only

Signature of the Contractor

Executive Engineer (Project)

21/02/17

21/2

Sl No	Item Name	Unit	Estimate Quantity	Negotiated Rates quoted by Sri H V ONKARAPPA	
				Rate in figures	Rate in words
5	Providing and fixing M.S. Hand railing for Balcony/Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing with inclusive of all lead and lift and directions of the Engineer in charge of the work	Sqm	67.20	3309.00	Rupees Three Thousand Three Hundred Nine Only
6	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) with inclusive of all lead and lift and directions of the Engineer in charge of the work	Mtr	102.00	1119.00	Rupees One Thousand One Hundred Nineteen Only
7	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint with inclusive of all lead and lift and directions of the Engineer in charge of the work	Mtr	361.20	381.00	Rupees Three Hundred Eighty One Only
8	Providing precast Eurocon Tiles, Red colour for footpath 20mm thick using marble chips at 7-10 nominal size laid on bed CM 1:3 mix and jointed with red oxide cement slurry mixed pigment to match the shade to tiles, rubbing, polishing oxalic acid wash, wax polish included cost of materials and labour... with inclusive of all lead and lift and directions of the Engineer in charge of the work	Sqm	240.00	1437.00	Rupees One Thousand Four Hundred Thirty Seven Only
9	Providing and fixing M.S. Grill over existing compound wall as per using 16mm x 16mm M.S. Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification, with inclusive of all lead and lift and directions of the Engineer in charge of the work	Sqm	72.00	6655.00	Rupees Six Thousand Six Hundred Fifty Five Only

Signature of the Contractor

Executive Engineer (Project)

21/2

Sl No	Item Name	Unit	Estimate Quantity	Negotiated Rates quoted by Sri H V ONKARAPPA	
				Rate in figures	Rate in words
10	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary.b)25mm dia 2mm thick	Mtrs	700.00	66.00	Rupees Sixty Six Only
11	Supplying And Fixing Metal Fan Box with Round Hook.	Nos	18.00	106.00	Rupees One Hundred Six Only
12	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. b)25mm dia 2mm thick	Mtrs	200.00	67.00	Rupees Sixty Seven Only
13	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete.4)8"x6"x3" (203x152x76mm)	Nos	18.00	84.00	Rupees Eighty Four Only
14	5)4"x4"x3" (101x101x76mm)	Nos	8.00	78.00	Rupees Seventy Eight Only
15	7)3 to 4 Way	Nos	36.00	53.00	Rupees Fifty Three Only
16	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws.	Sq CM	18700.00	0.29	Rupees And Paise Twenty Nine Only
17	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A. 1)6Amps one way.	Nos	126.00	57.00	Rupees Fifty Seven Only
18	3)6Amps 3way socket.	Nos	54.00	89.00	Rupees Eighty Nine Only
19	4)Stepped Fan Regulator.	Nos	18.00	271.00	Rupees Two Hundred Seventy One Only
20	10)6/16Amps universal socket0	Nos	78.00	138.00	Rupees One Hundred Thirty Eight Only
21	11)32Amps DP switch	Nos	78.00	154.00	Rupees One Hundred Fifty Four Only
22	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet.GROUP A 1)Short point upto 3Mtr from tapping point to out let via switch box	Point	18.00	166.00	Rupees One Hundred Sixty Six Only
23	2)Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	Point	18.00	247.00	Rupees Two Hundred Forty Seven Only
24	3)Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	Point	36.00	384.00	Rupees Three Hundred Eighty Four Only
25	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. 2)1.5 sqmm	Mtrs	300.00	18.00	Rupees Eighteen Only
26	3)2.5 sqmm	Mtrs	200.00	29.00	Rupees Twenty Nine Only
27	4)4 sqmm	Mtrs	200.00	42.00	Rupees Forty Two Only
28	5)6 sqmm	Mtrs	1700.00	61.00	Rupees Sixty One Only
29	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size .....mm conduit using necessary machine screws.80.mm	Nos	25.00	41.00	Rupees Forty One Only
30	110mm	Nos	11.00	21.00	Rupees Twenty One Only

Signature of the Contractor

Executive Engineer (Project)

21/02/17

21/2

Sl No	Item Name	Unit	Estimate Quantity	Negotiated Rates quoted by Sri H V ONKARAPPA	
				Rate in figures	Rate in words
31	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP B196 Amps lamp holder	Nos	36.00	44.00	Rupees Forty Four Only
32	Supplying patti type fluorescent tube light fitting of 4' -suitable for 28 watts fluorescent tube fitting, made out of M.S. Sheet and stove enameled with HF Electronic Ballast , locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC . Supply including T5 lamp.	Nos	44.00	769.00	Rupees Seven Hundred Sixty Nine Only
33	Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz, AC Supply.	Nos	2.00	1954.00	Rupees One Thousand Nine Hundred Fifty Four Only
34	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete.12" Sweep (300mm)	Nos	2.00	4200.00	Rupees Four Thousand Two Hundred Only
35	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm)	Nos	14.00	2731.00	Rupees Two Thousand Seven Hundred Thirty One Only
36	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 56" Sweep (1400mm)	Nos	2.00	2779.00	Rupees Two Thousand Seven Hundred Seventy Nine Only
37	Supplying surface mounted type mirror optic luminaries for single/Twin 28watts fluorescent lamps cross rising of stove enameled deep coloured M.S.low profile housing complete with all accessories and high purity anodized aluminum reflector assembling along with cross louvers including necessary fluorescent tubes with Energy Saving Electronic Ballast.2x4'-28Watts	Nos	16.00	4630.00	Rupees Four Thousand Six Hundred Thirty Only
38	Supply of 2'x2' LED recessed luminaire with ...Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit, overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injection moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth. 5 years Warranty against any manufacturing defect working under standard electrical condition LED modular down light 2'x2'-36 watts	Nos	4.00	9474.00	Rupees Nine Thousand Four Hundred Seventy Four Only
39	3)LED modular down light 2'x2'-55 watts	Nos	1.00	10774.00	Rupees Ten Thousand Seven Hundred Seventy Four Only

Signature of the Contractor

Executive Engineer (Project)

21/02/17

21/2

Sl No	Item Name	Unit	Estimate Quantity	Negotiated Rates quoted by Sri H V ONKARAPPA	
				Rate in figures	Rate in words
40	Supply of LED Square Recessed Down lighter with 18W System Wattage. Housing shall be with powder coated pressure die cast aluminum alloy with corrosion resistant polyester powder coat & with extended heat sink. Diffuser/cover made of Lexan plastic material. Rated life shall be L70 @ 50000 Hrs. which shall has inbuilt electrical protection like over/under voltage, short circuit, overload, open circuit & miswiring. Driver is on constant current driver output driver @ 0.06A with PF > 0.9 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens. 5 years Warranty against any manufacturing defect working under standard electrical condition.	No	3.00	5684.00	Rupees Five Thousand Six Hundred Eighty Four Only
41	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.	Nos	3.00	35922.00	Rupees Thirty Five Thousand Nine Hundred Twenty Two Only
42	Supplying of recessed/surface mount aesthetic 2'x2' modular luminaries made out of single piece powder coated CRCA sheet steel accommodating all electrical accessories like Energy Saving Electronic Ballast suitable to operate on 230V 50Hz AC supply with 36Watts CFL-compact fluorescent lamp, pre-wired up to terminal block with bright anodized aluminum reflector & P5 paralite louvers with spring loaded plastic toggles. 3x36Watts	Nos	4.00	6742.00	Rupees Six Thousand Seven Hundred Forty Two Only

Signature of the Contractor

Executive Engineer (Project)

21/02/17

21/2

Sl No	Item Name	Unit	Estimate Quantity	Negotiated Rates quoted by Sri H V ONKARAPPA	
				Rate in figures	Rate in words
43	LED Down light Supply of recess mounted rolling type LED Down light with 4/6W GU 10 LED Lamp Rib Fabricated from Die cast aluminum with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminum die cast eye ball & LED Lamp position retained by circular wire spring. 5 years Warranty against any manufacturing defect working under standard electrical condition. LED square or round down light 5x1 watts	Nos	30.00	1641.00	Rupees One Thousand Six Hundred Forty One Only
44	Supplying of recessed/surface mount aesthetic Square / rectangular modular luminary made out of single piece powder coated CRCA sheet steel accommodating all electrical accessories like electronic ballast suitable to operate on 230V 50Hz AC supply with 18Watts PLL-compact fluorescent lamp, pre-wired upto terminal block with bright anodized aluminum reflector & P5 paralite louvers with spring loaded plastic toggles.1x18Watts	Nos	6.00	1982.00	Rupees One Thousand Nine Hundred Eighty Two Only
45	2)2x18Watts	Nos	1.00	2229.00	Rupees Two Thousand Two Hundred Twenty Nine Only
46	Supplying and fixing 2mm thick perforated cable tray with powder coated paint on existing MS angle support using necessary GI bolts/nuts and washer or welding as required.150x50mm	Mtrs	50.00	509.00	Rupees Five Hundred Nine Only
47	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 25 sqmm	Mtrs	100.00	190.00	Rupees One Hundred Ninety Only
48	6)3.5 core 35 sqmm	Mtrs	50.00	234.00	Rupees Two Hundred Thirty Four Only
49	8)3.5 core 120 sqmm	Mtrs	100.00	640.00	Rupees Six Hundred Forty Only
50	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. 25 sqmm to 75 sqmm	Mtrs	150.00	19.00	Rupees Nineteen Only
51	95 sqmm to150Sqmm	Mtrs	100.00	25.00	Rupees Twenty Five Only
52	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs	100.00	90.00	Rupees Ninety Only
53	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	Nos	6.00	3135.00	Rupees Three Thousand One Hundred Thirty Five Only
54	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip	Mtrs	100.00	89.00	Rupees Eighty Nine Only
55	600x600x3mm GI Plate	Nos	6.00	901.00	Rupees Nine Hundred One Only

Signature of the Contractor

Executive Engineer (Project)
21/02/17

Sl No	Item Name	Unit	Estimate Quantity	Negotiated Rates quoted by Sri H V ONKARAPPA	
				Rate in figures	Rate in words
56	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG	Sq CM	270000.00	0.39	Rupees And Paise Thirty Nine Only
57	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm	Mtrs	25.00	302.00	Rupees Three Hundred Two Only
58	2)50x50x6mm	Mtrs	10.00	389.00	Rupees Three Hundred Eighty Nine Only
59	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.40-63 Amps SP	Nos	10.00	778.00	Rupees Seven Hundred Seventy Eight Only
60	5-32 Amps DP	Nos	18.00	976.00	Rupees Nine Hundred Seventy Six Only
61	.40-63Amps TPN	Nos	3.00	2256.00	Rupees Two Thousand Two Hundred Fifty Six Only
62	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.32Amps	Nos	18.00	207.00	Rupees Two Hundred Seven Only
63	100Amps	Nos	12.00	414.00	Rupees Four Hundred Fourteen Only
64	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE100Amps 25kA.	Nos	7.00	6677.00	Rupees Six Thousand Six Hundred Seventy Seven Only
65	8)200Amps 35kA.	Nos	2.00	16774.00	Rupees Sixteen Thousand Seven Hundred Seventy Four Only
66	Supplying of on load change over switches 4 poles, AC-23A Duty, 415V, 50Hz, AC Supply.200Amps	Nos	2.00	14500.00	Rupees Fourteen Thousand Five Hundred Only
67	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.250Amps 4x30x10mm Aluminum Strips	Mtrs	5.00	3382.00	Rupees Three Thousand Three Hundred Eighty Two Only
68	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 100-125Amps	Nos	1.00	11397.00	Rupees Eleven Thousand Three Hundred Ninety Seven Only
69	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel	Nos	200.00	24.00	Rupees Twenty Four Only
70	Supplying, fixing and wiring 3 Phase Digital Ammeter /Voltmeter.	Nos	4.00	1407.00	Rupees One Thousand Four Hundred Seven Only
71	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound.	Nos	6.00	555.00	Rupees Five Hundred Fifty Five Only
72	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C.	Nos	6.00	508.00	Rupees Five Hundred Eight Only

Signature of the Contractor

Executive Engineer (Project)

21/02/17

Sl No	Item Name	Unit	Estimate Quantity	Negotiated Rates quoted by Sri H V ONKARAPPA	
				Rate in figures	Rate in words
73	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	Mtrs	10.00	397.00	Rupees Three Hundred Ninety Seven Only
74	65mm	Mtrs	10.00	672.00	Rupees Six Hundred Seventy Two Only
75	Supplying, fixing and wiring rotary selector switch suitable for Ammeter.	Each	4.00	198.00	Rupees One Hundred Ninety Eight Only
76	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter.	Each	4.00	161.00	Rupees One Hundred Sixty One Only
77	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.120Sqmm	Nos	4.00	1318.00	Rupees One Thousand Three Hundred Eighteen Only
78	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws.	Sq CM	45000.00	0.26	Rupees And Paise Twenty Six Only
79	Supplying High pressure ..... Metal halide flood light luminary suitable for use with high pressure metal halide lamp with integrated control gear. The fitting shall be non corrosive high pressure die cast aluminum housing powder coated with toughened and heat resistant glass with low copper content black/grey powder coated paint finish with EPDM gasket. Reflector shall be made of high purity pre-anodized aluminum. Cable entry through a cable gland with toggle clips. IP 65 protection for both and optical and electrical compartment. Bottom cover may be with polycarbonate / tempered / toughened glass. Luminaire efficiency should be > 60% and ambient temperature > 35 deg C. High intensity discharge Electro magnetic ballast with copper winding of Octocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety and IEC 60923- performance. Winding temperature for HID ballast tw = 130 deg C and temperature rise ?T - 70 deg C. Luminaire shall be suitable to operate on 230/250Volts 50Hz AC supply finish including wiring, ignitor, condenser. SS Toggles for opening front hingeable glass, prewired to terminal block.2x400Watts	Nos	5.00	26209.00	Rupees Twenty Six Thousand Two Hundred Nine Only

Signature of the Contractor

Executive Engineer (Project)

21/02/17

21/2